

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-22 (Canceled)

23. (New) An apparatus for maintenance of a plant, the apparatus comprising
- a sensor positioned adjacent to the plant for detecting a property;
- a control apparatus coupled to the sensor for receiving a signal from the sensor in response to the detection of the property;
- a conduit for conveying a substance to the plant; and
- a flow control apparatus coupled between the control apparatus and the conduit for allowing the control apparatus to control the conveyance of the substance to the plant in response to the signal.
24. (New) The apparatus of claim 23, wherein the sensor includes an insect sensor.
25. (New) The apparatus of claim 23, wherein the sensor includes a protein sensor.
26. (New) The apparatus of claim 23, wherein the sensor includes a DNA sensor.

27. (New) The apparatus of claim 26, wherein the control apparatus includes  
a process for determining the type of insect detected by the insect sensor based on a  
signal from the DNA sensor.
28. (New) The apparatus of claim 23, wherein the sensor includes a light sensor and  
wherein the substance includes water.
29. (New) The apparatus of claim 23, wherein the sensor includes a leaf wetness sensor.
30. (New) The apparatus of claim 23, wherein the sensor includes a light detector  
positioned with respect to a light source so that light from the light source is directed to the plant  
before being directed to the light detector.
31. (New) The apparatus of claim 30, wherein the sensor includes an infrared light  
detector.
32. (New) The apparatus of claim 23, wherein the substance includes a fungicide.
33. (New) The apparatus of claim 23, wherein the control apparatus includes  
a disease risk model to determine a desired flow of substance.
34. (New) The apparatus of claim 33, wherein the substance includes a fungicide.

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CONCLUSION

Applicant asks that all claims be examined in view of the amendment to the claims.

Respectfully submitted,

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